OPEN FILE REPORT 79-086 UNITED STATES EPSIE QUADRANGLE DEPARTMENT OF THE INTERIOR PLATE 5 OF 25 MONTANA-POWDER RIVER CO. GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) 4875 II SW (LESLIE CREEK) 105 37'30" OPEN-FILE REPORT 45°30′ 12 10 This report has not been edited for conformity with 12 11 U.S. Geological Survey editorial standards or stratigraphic nomenclature. **EXPLANATION** 18 17 16 15 13 _____100 _____ OVERBURDEN ISOPACH-Showing thickness of over-13 burden, in feet, from the surface to the top of the coal bed. Overburden isopachs within the stripping limit are omitted where they are too close to a mining-ratio contour for map readability. Isopach interval 100 feet (30.5 m)BOUNDARY OF COAL 5 FEET OR MORE THICK— Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick. 23 20 21 22 24 19 87 24 DRILL HOLE-Showing thickness of overburden, in feet, from the surface to the top of the coal bed. -----MINING-RATIO CONTOUR-Number indicates cubic yards of overburden per short ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limits. To convert feet to meters, multiply feet by 0.3048. 30 29 28 27 26 To convert yds³/ton to m³/metric ton, multiply yds³/ton by 27'30" 27'30" 25 31 32 35 33 36 T4S T5S NOTE: Where no mining-ratio contour is shown in the outliers of Reserve Base coal, the mining-ratio value is less than 10. 11 10 12 18 17 14 15 16 13 19 23 24 22 21 20 30 27 26 29 45°22'30" (YARGER BUTTE) 4874 I SW 105°37′30″ Base map from U.S. Geological Survey, 1973 Compiled in 1977 SCALE 1:24 000 1 KILOMETRE 14%° 258 MILS MONTANA UIM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE EPSIE QUADRANGLE,
POWDER RIVER COUNTY, MONTANA
BY

OVERBURDEN ISOPACH AND MINING-RATIO
MAP OF THE UPPER SPLIT
OF THE COOK COAL BED